

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Jeff Casey <WB5GWB@sprynet.com>
Subject: [4579] 1st Long Island QRP meeting! Y'all come!!
Message-ID: <199611171507.HAA17038@m7.sprynet.com>

ATTENTION LONG ISLAND, NY, & NEW YORK CITY QRPers and other interested parties:
(Others please press delete now -- sorry for the bandwidth.)

The first meeting of our new QRP group will take place on:
SATURDAY, DEC. 7, 1996, AT 11:00 AM.

Location: A restaurant somewhere in western Suffolk county.

(Yep, that's right, it's a foxhunt to the 2nd power. Nick, KF2PH, will be at the restaurant running a 49er, using silverware placed end-to-end as an antenna, and you'll have to not only work him, but also do some mobile direction finding to get to the meeting. If you make it, lunch is on Nick! *ONLY KIDDING* If we really did that, half the QRPers east of the Mississippi would show up just to meet the challenge and the restaurant would be overrun, not to mention that Nick wouldn't be buying any new kits for a while!!! :-)) :-)) :-))

Actually, Nick, John (N2QCE) and I are still scouting out suitable restaurants, but please mark your calendar now. If anyone else has suggestions on where we should meet, please let me know. I'll post the location in a few days.

I envision keeping things very informal -- no dues, no officers, no formal business meeting, no boring lectures. Just fun. Bring rigs, projects, etc. for show and tell. Hopefully, Preston, WJ2V, will be giving us our first look at the new Small Wonder Labs White Mountain QRP SSB transceiver. The only real business we have to conduct is deciding where and when to have the next meeting.

If any of you city folks want to come out on the train, one of us will gladly pick you up and drop you off at the train station. Just let me know.

We're also trying to assemble an email list for the group. This way we won't have to post all announcements to the entire QRP-L list. If you would like to be on it, please let me know.

Hope to see you on Dec. 7!!!

72 & 73,
Jeff

Jeff T. Casey / WB5GWB / Long Island, NY / ARCI ARRL ARS QRP-L

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: wa5whn@juno.com (Jay D Miller)
Subject: [4583] 30 meters & 17 meters & Toroid sealant
Message-ID: <19961117.091053.4447.0.wa5whn@juno.com>

QRP-Lers,

For those of us, who wish to escape from the Sweepstakes (SSB) contest, this weekend, I had heard JR5XPG on 10.109 MHz , 569 into Grid Square DM65qd (Albuquerque, NM-NW Valley), @ 1540 UTC. 30 meters is a live & well, along with 17 meters, around 2100 UTC, with openings into Africa.

Some one had asked about what they seal their toroids with; I use Sally Hansen's Heat Sealed Top Coat, available from any Walgreens or local USA prescription drug store. Be sure & apply it in a well ventilated area & I then stick the toroid under a 60 watt lamp to cure the sealant for 15 minutes.

Off (both mentally & physically) to Socorro, New Mexico, on Nov. 23rd (Saturday) for the Socorro Hamfest. See You there.

72...Jay, WA5WHN
Grid Square: DM65qd

PS For those of You who use Maidenhead Grid Squares, take a look at page 46, December, '96 issue of "Worldradio". It's a Basic Grid Finder, by KD5DL. The name is misleading, since it just gives You distance, in statute miles & bearing to any other location on the planet, great way to double check miles/watt. You must enter Your' Lat. & Long..

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Dave.Ackrill@westwood45.powergen.co.uk
Subject: [4577] Digest Missing
Message-ID: <961117110710Z*/G=Dave/S=Ackrill/O=westwood45/PRMD=POWERGEN/ADMD=CWMAIL/C=GB/@MHS>

Hi All,

Did anyone get the digest today (17th November 1996) ?

I think it would have been number 547, but no sign of it here yet. I am wondering if it has not been generated, or whether there is a problem in the delivery to me.

Thanks for the help.

Dave (G0DJJA)

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: "John Shuster" <jshuster@ix.netcom.com>
Subject: [4572] Emtech's new QRP tuner!
Message-ID: <199611170654.WAA16238@dfw-ix4.ix.netcom.com>

Last week, I wrote:

"P.S. EMTECH tuner on the way!!!! Roy gave me some parts for a Z-Match tuner kit he s designing for QRP operation. I m going to beta test it for him. This tuner will handle up to 15 watts, is small and light, and designed to be trail friendly . Complete kit price will probably be under \$50. I ll write it up after I get done constructing it this weekend."

It's done! Imagine a little ATU that s about half the volume of an OHR WM-1 wattmeter. You sit it down on a desk, picnic bench, or boulder, and all the connections and controls are accessible from the top - trail friendly! It will tune 80 - 10 meters and handle up to 15 watts of power. It weighs less than a pound and handles coax, ladder line feed, or long wires. No balun necessary. The Z-Match is a balanced tuner.

If you ve been searching for a small efficient QRP tuner, this may be your answer.

As Charlie Lofgren, W6JJZ taught us in the July 95 Quarterly, Z-Match tuners have been around since the 50 s. They were used to reduce bandswitching chores in the tube rigs of the period. Bill Orr, W6SAI s HF ANTENNA HANDBOOK discusses Z-Match antennas and has a picture of a 100 watt Z-Match tuner made by none other than Roy Gregson W6EMT. Roy has taken his years of experience with the Z-Match and shrunk it down into EMTECH s new ZM-1 ATU.

Instead of a tapped coil, the Z-Match uses a T-130-2 toroid and 2 miniature variable caps like the ones you find in transistor radios. This was the biggest toroid I ve ever wound. It was so much fun I wanted to do 5 more! The kit goes together quickly and easily. Roy provides a template to help you drill holes for all the connections and controls. Taking my time, I put it together in less than 3 hours. Nice clear instructions with lots of illustrations to help speed the wiring. No smoke test here.

Operation: Connect the antenna and transceiver, tune for max receiver noise, and you re in the ballpark. The two variable caps have fine markings. They re necessary because the Z-Match tunes sharp. There

doesn't seem to be much logic to the matching process beyond tuning for strongest noise. Alternately tweaking both the caps and watching your reflected reading will get you down to 1:1. Every time. If you're heading to the field, you might gain some air-time by figuring those settings in the back yard with your antenna up before you head for the hills.

To aid in tuning, Roy has a quality toggle switch that can add another 250pf or 500pf to the input circuit. I found I had to use the additional 250pf to match 80 and 40 meters to my R7. As I mentioned, I was able to achieve 1:1 matches at any frequency I picked. I now have a cheat sheet that is very handy and very repeatable. I set the transmit frequency, set the caps to their pre-recorded values, tweak with my eye on the reflected meter, and I'm ready to unleash QRP power to the ionosphere.

More extensive details on the ZM-1 and a convenient ordering form can be found on EMTECH's home page:
<http://www.isomedia.com/homes/starbuck/emtech.htm>

If you don't have browser capability, send an SASE to Roy at EMTECH, 3641A Preble St. Bremerton, WA 98312, and he'll mail out hard copy to you.

This is a neat little tuner. A simple, proven design that works exceedingly well.

John

++++
Father John Shuster, Married Roman Catholic Priest jshuster@ix.netcom.com
Need A Priest? Rent-A-Priest! 1-800-PRIEST-9 A Free Referral Service
At the foot of the Olympics in little Port Orchard, WA
K7MP ARCI 8951 QRP-L 554 ARS 36 NW QRP 346 WWDXC ARRL
++++

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: john andrews <jm165723@eee.org>
Subject: [4589] FS: and a few comments....(LONG)
Message-ID: <328F5661.380C@eee.org>

Hi Gang:

Just a few comments for the newcomers and OT's(Old Timers).

Have seen quite a few questions for the group on 1. What is a 40-9er
2. What is this and how does it work?(Generic question).

As with any subject you want information on, the answer is just a

click away. I can point my browser at the "search" function and it will point at Yahoo,Excite, or any of several search engines.

Type "QRP" and several hits will appear. The NorCal(Northern California QRP club) will be shown(MAYBE). Most of us by now know that the 40-9er by now is history and no longer being produced but a lot of information is still there about how to build one(the schematic and parts list).

NorCal still publishes a bound edition of yearly issues at a reasonable cost. Other clubs may do this also. Club officials are very helpfull about assistance in obtaining club newsletters and information at a nominal fee.

Some pages contain a search feature within their archives to assist in finding out about events, projects, etc.

If you don't find that particular page interesting, most are cross-linked to other pages. A few minutes(or hours) of "surfing the net" can produce a wealth of information.

Moving on:

I have seen a lot of questions about "fixing" the turns on toroid coils(and othet types)- Your friendly TV repairman is one source. Q-Dope, a fixative is availiabile via the TV guy. GC Electronis is almost a standard in the entertainment electronics industry. Your TV guy can order it for you under the part #10-3704 for a few dollars and a bottle will last most hams a lifetime. Clear finger nail polish is also great. I suggest the clear as the colored may have metal flakes in them. Even the smallest town has a "tv guy".

While you are there, you might pick up a tv chassis for parts. A long thread was here just a few weeks ago about safety and how to handle the picture tube. Ask a few questions. He might be a ham! Ask about old parts still in stock.

While you are there ask for an NTE substitution book. This will help you ID the treasures(parts) from the old TV you found. BTW- Heath-Kit numbers are still listed if you are trying to find a replacement. A few bucks well spent. While not as good, the NTE sub. guide is also on disk for a good price. I'm not an employee of NTE or even a fan. Some substitutes WILL NOT work...but it's a good place to start.

On and On...Ran into Cam and a few of the other World Class QRPer's at the local swapmeet this Sat. His Sierra and KC-2 is a sight to behold. Nice. C'mon SoCal guys...When are we gonna organize?

Ok ... You suffered thru my noise...

Picked up a bunch (about 20) filters from the swapmeet reputed to be from Swan and Atlas Radio...Offers?

Got a few rolling inductors and other odds 'n ends up for grabs.

Let me know.

72, John N5INZ

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: CKrelic <CKrelic@worldnet.att.net>
Subject: [4588] FS: HW9 Stn
Message-ID: <328F4B5E.691F@worldnet.att.net>

Have a HW9 Station for sale:

HW9=Flawless__MINT
PSA-9/Power supply=scratches on top panel
HM-9/Qrp watt meter=Very few superficial scratches
HFT-9A/Antenna tuner=Close to mint

\$400 for all, will ship for that price lower 48.

Selling because I found a NEW, never used Century/21
and can't justify TOO many HF rigs-:)

Curt/Ka3ivb
412-693-9890
QRP-L #433

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Joe Everhart <n2cx@voicenet.com>
Subject: [4596] Gusher-II in WorldRadio
Message-ID: <199611172156.QAA24001@mail3.voicenet.com>

Gang,

I've received mention from several folks that my Gusher-II antenna was mentioned in the December issue of WorldRadio. That is one (of the few) periodicals I don't subscribe to or otherwise see on a regular basis. And they *did* send me a free issue, but it was November!

Anyway, I'd like to get a copy of the article or column that mentioned the Gusher. Perhaps it was the QRP column by Richard Fischer.

Would someone who has the December issue please contact me? I would like to see a copy of the reference. I'll gladly send an SASE and copying costs.

BTW, thanks to the party who wrote it up. I've gotten several orders for the Gusher from folks who saw the article!

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: KB0PJE /5 Jack Dougherty <jdougher@wt.net>
Subject: [4599] HB: NW40 MOBILE-Any tips??
Message-ID: <328FD630.276D@wt.net>

I just had my first mobile CW contact - Houston to Tennessee - and got a nice 559 from there. Any mobile CW operating tips for a newbie???

Rig was the new NW40 loaded into a 40M Hamstick with tuner. For grins, I mounted the rig in my car with a bunch of ty-wraps. Seemed to work great when he came back in response to my reply to his CQ, but my CW copy sure didn't! Had to pull over, and even then it was apparent I have to practice this lots before doing more mobile CW at anywhere near normal speeds (CW that is; not vehicle... or is it both....??)

Any mobile operating tips from the experienced group out there??
Before this, I couldn't believe a QRP Mobile could make it in real life, so it sure was fun to experience otherwise.

KB0PJE /M /5 /QRP
Jack /electric banana yellow '79 Caddy /Houston /NW40

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Tony Fishpool <101573.3220@compuserve.com>
Subject: [4590] Help needed identifying Toko coils
Message-ID: <961117182654_101573.3220_IHK130-2@CompuServe.COM>

At a radio rally yesterday I happened upon some Toko Coils for 50 pence a big bag. So I bought a couple thinking they must be useful and I could look them up in my catalogue when I got home. Big mistake, they were not listed!

I wonder if some kind soul out there has any data on the following:-

Looking from bottom.

```
-----  
|o  o|    marked KXCAK2499ABZ  
|C    |  
|  o|    White colour material showing through top of can.  
-----
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-----  
|o  o|    marked 9181179167  
|C    |  
|o o o|    Green colour material showing through top of can.  
-----
```

They are the same size cans as the Toko 15AN-T1005 used in the Epiphyte.

o=pin
C=capacitor

If the information would fax more easily I can be reached on
+44 171 739 7867

Many Thanks
Tony - G4WIF

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: jdenison@aisp.net (JOEL DENISON)
Subject: [4585] HOW TO UNSUBSCRIBE
Message-ID: <19961117171256342.AAA64@slip32.ts-f-merrill.caps.maine.edu>

Thanks for all the replies

this is the message I received

Hello Joel

Try the following address and message:

listserv@lehigh.edu

unsubscribe qrp-l

That's how it's done! now don't stay gone, you're always welcome!

God Bless
Joel

WA5CVM

Joel Denison

81 High street

Farmington, Maine 04938

jdenison@aisp.net

33ft Vertical up 6ft & Inverted Vee up 40ft.

QRP ARCI 4066 NEW ENGLAND QRP 467 QRP-L 765

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: RobCap@aol.com
Subject: [4580] HW-8 Building Question
Message-ID: <961117100758_1484900878@emout06.mail.aol.com>

Hi Folks-

Am working my way troubleshooting an HW-8. I have quite a lot of respect for this little rig. The wiring is complex and very tight, and it's a difficult little kit. More difficult than the OHR-400, but less difficult than the HW-9.

Question: The schematic shows the antenna jack connected to the common lead on the relay, so that the antenna is connected to NC on receive, and NO and transmit. But the instructions direct the builder to connect the antenna to "Lug 2" on the relay, which is to the *coil*, rather than to common.

Can anyone explain the discrepancy between the instructions and the schematic?

Please respond to "Robcap@aol.com".

73,

Rob, W3DX
a.k.a. WA3ULH

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: "KF4MZD (John Kemker)" <kemkerj@xyzzzy.net>
Subject: [4582] Low power telemetry
Message-ID: <9611171607.AA27796@ponyxprs.atlanta.med.va.gov>

I was wondering if anyone had done any QRP telemetry or was interested in it. My other expensive hobby ;-) is flying high-power model rockets. A group of us were thinking about putting a QRP transmitter in a rocket connected to an altimeter, temperature probe, etc. to relay that information back down to the ground.

Does anyone have any ideas of what sort of transmitter might be a good choice for that?

=====
73 de KF4MZD (John Kemker)
kemkerj@xyzzzy.net

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [4573] Monday nite Fox
Message-ID: <Pine.SUN.3.90.961116230925.17359C-1000000@vortex.sage.dri.edu>

Just a reminder.....

Monday night local time.....

7035+ 1730 West coast time.

(0130z - 0330z Tue UTC)

Remember, the first 100 stations will get a free, authentic, NEVADA QSL card.....good for awards and bragging rights..... :-)

After the first 100, they will cost a SASE.... :-)

I just noticed my work address.....5625 FOX Ave! Thats just gotta mean something...

Who's gonna win, TX or CA.....or will some other state beat them both?

cu all soon.....

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Luke Enriquez <ecslfe@lux.latrobe.edu.au>
Subject: [4574] Need To Find Retailer of Bencher/Vibroflex near Nevada
Message-ID: <9611170917.AA13254@lux.latrobe.edu.au>

Howdy All,

Please send all response via email, as this is not specifically relevent to QRP. I'm in desperate need of a Paddle/Iambic Key for my Sierra. I have a relative visiting Nevada for business. Does somebody know of a retail store who sells either Vibroflex or Bencher keys either in Las Vegas or somewhere else in Nevada? I would like to avoid shipping if possible, and just give the relative the address to pick the key up from. Thanks to all those who can lend a hand.

73's from VK,
Luke

--
Luke Enriquez VK3EM "I only cook with Non-violent
3rd Year Electronic Engineering fruit that pulps itself."
Latrobe University, Victoria, Australia.
ecslfe@lux.latrobe.edu.au
--

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: "chris" <guardianone@mvtel.net>
Subject: [4571] new to qrp need help
Message-ID: <9611170626.AA28438@host.ot.centuryinter.net>

i am new to qrp and would like suggestions on what kinds of cheap, useful items i can build just to get my feet wet before jumping into an OHR kit etc, any diagrams out there for a 20m, 40m, qrp rig, i,m looking for some ugly construction projects.

tnx chris kb5vyb

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Patrick McVey <mcvey@kingman.com>
Subject: [4575] Newbie, basic questions
Message-ID: <199611170929.CAA11317@king.serv.kingman.com>

1. What is a 40-9er? I know what a 2 by 4 is.
2. What is the Fox Hunt?
3. To the gentleman with the "bare essential" HF equipment: How much am I looking at to get in? I found a MFJ9040 package from AES for under \$300. Will this cut it?

Patrick McVey, KC7AIR
Kingman, Arizona

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [4591] Pi Network Tuners

Built a pi-net tuner yesterday and had forgotten how well these devices work. They are low-pass filters and attenuate harmonics. They don't need a bypass switch since inductive reactance can be set almost to zero and capacitive reactance can be set almost to infinity. Two of them can be ganged and used as a balanced (ladder-line) tuner. I know the T-net tuner has a broader matching range but if a T-net will perform a match and a pi-net won't, IMO that's probably the high loss region and should be avoided anyway. The one I built matches my resonant 40m triangle on 20m, 15m, and 10m. Got good signal reports with it yesterday on 15m.

Fair Radio Sales, P.O.Box 1105, Lima, Ohio, 45802

has a good selection of variable caps and inductors
at reasonable prices.

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [4597] QRP Phone S/S
Message-ID: <19961117.184659.7607.0.wb2vuo@juno.com>

I ran an abbreviated Phone S/S due to travel commitments for a job.
Here's the first pass thru the logs:

BAND QSO's NEW SECTIONS

160	1	0
80	59	19
40	32	13
20	46	23
15	14	6
10	0	0

Totals 152 61

Claimed Score - 18,544 Points

The Station Particulars:

Rig(s) - Alinco DX-70T @ 4.5 Watts
 Radio Shack HTX-100 @ 5 Watts

Antlers:

BAND ANTLER(s)

160	Inverted Vee up 40 ft
80	Inverted Vee up 40 Ft
40	Inverted Vee up 40 Ft
20	3-wave off-center fed wire (208 ft long, fed 16.5 ft from house end up 25 ft at house, 6 ft at far end, sloping WSW
15	40Mtr Inverted Vee & dipole in the barn loft (up 20 ft)
10	10 Mtr G.P. (for all the good it did)

This time around, I worked the Top Band (160M), but nothing on 10 Mtrs,
not even locals. A real bummer as 10 was open around 0300Z for 3 nights

just before S/S (go figure...)

I need to stop bad-mouthing 75 M and 20 M SSB. They were the most productive bands I had. The 20 Meter sloping long-wire (and 3-waves really IS a Long Wire...) worked better than I expected. Other than KW+++ alligators, I got most everyone I called on 20 M. The common thread on 75 M was that I didn't sound "QRP", but I have been known to run traffic nets on 75 & 40 with QRP as does my neighbor here in the Swamp (KA2DQA, just a mile down the road).

I had fun, just wish I could have put in the last 5 hours. However, the pursuit of the Almighty Paycheck won the battle for my time.

The next Contest I will be in is the 160M ARRL CW test, and will have a couple of top-band antlers to play with. I made up a relay box so I can use a (hopefully) quiet RX loop for the 'Test. The 10 Meter Contest is next, and then the January VHF Sweeps...

See you all on the Top-Band and 10 Meters! (VHF if you are close enough...)

72/73, Keith, WB2VUO, QRP-L #582, ARRL LM, TS (WNY Section), VP/BARK, Trustee, KB2YTW/B 10 Mtr Milliwatting Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: WJ4PRandy@aol.com
Subject: [4578] soapbox for the "AE4IC Struggle"
Message-ID: <961117081729_1384862116@emout20.mail.aol.com>

My thanks to Bob, AE4IC for setting this contest up.
It certainly was well timed, with all the 40-9ers built up and all.

Monday night was mildly successful but signals were down as propagation to my end of the world was poor. Also, getting into the swing of things and trying to remember the exchange was a challenge. It was good to hear some familiar calls and to finally work a 40-9er on the air. KJ5TF, Jim, was all over and working (it seemed) everything I could hear and then some. He sure gets around with that 'lil radio! He proved to be my nemesis -

He out scored me - Jim, watch out next time!!
Tuesday night was the best with very good prop and strong sigs. I worked about twice as many stations but only ONE 40-9er, Jim KJ5TF! (wouldnt you know! hi!)
Wednesday and Thursday nights turned out like Monday with low prop and weak sigs.
Friday night the propagation was so good I had SSB splatter and digital sigs wiping out just about every station I heard. Just worked a few stations. A disappointing finish to a fun contest but I still had fun.
One thing I noticed... almost all stations that called me did it nearly zero-beat probably betting that I was an unmodified 40-9er. I as able to tune off zero-beat and still hold them. That was a smart strategy considering this contest.
Thanks to everyone for being patient. This aint your fathers contest radio...
73, Randy WJ4P

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: johnhill@freenet.edmonton.ab.ca
Subject: [4584] VF0 construction
Message-ID: <Pine.A41.3.95.961117094729.43820A-100000@fn2.freenet.edmonton.ab.ca>

Hi Gang,

Hope that I'm not beating a dead hourse with this question.

When building a VF0, must the variable cap. be inside the VF0 shielding or can it be outside the shielding enclosure?? I would assume that inside would be more stable as all VF0 components would be at the same temperature and that this type of construction is the more complex and expensive.

Comments please, gentlemen.

Thanks, John Hill, VE6CU...72...

email: johnhill@freenet.edmonton.ab.ca

QRP-L #838

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Ed Tanton <n4xy@avana.net>

Subject: [4595] VFO shielding

Message-ID: <3.0.32.19961117165013.00692800@tiger.avana.net>

<color><param>0000,8080,0000</param><bigger><bigger>Hi John...
</bigger></bigger></color><bigger><bigger><color><param>0000,0000,ffff</param>
>there
are a
</color><bold><italic><color><param>ffff,0000,0000</param>couple</color></it=
alic></bold><color><param>0000,0000,ffff</param>
of answers to your question!
</color><bold><underline><color><param>ffff,0000,0000</param>First</color></=
underline></bold><color><param>0000,0000,ffff</param>,
if I was building from
</color><bold><italic><color><param>ffff,0000,0000</param>scratch</color></i=
talic></bold><color><param>0000,0000,ffff</param>,
I would build the
</color><color><param>ffff,0000,0000</param>entire</color><color><param>0000=
,0000,ffff</param>
VFO into a diecast box, or use some very thick aluminum to build a box of
appropriate dimensions. I would fasten that box onto the thick aluminum
front panel. I would then bring the shaft of the capacitor through the
front panel.

That said, look at

</color><bold><italic><color><param>0000,8080,0000</param>virtually
all</color></italic></bold><color><param>0000,0000,ffff</param> the
current crop of QRP kit rigs from anybody you like... the capacitor (when
there is one-and there usually is) is
</color><bold><italic><underline><color><param>0000,8080,0000</param>never
enclosed</color></underline></italic></bold><color><param>0000,0000,ffff</pa=
ram>
in anything much. the vfo's may have some shielding in the form of
vertical strips, but-as far as I know-that is all they do. Now, I
understand economics is a factor here... but you know,
</color><bold><color><param>ffff,0000,0000</param>most of 'em work pretty
well. </color></bold><color><param>0000,0000,ffff</param>That makes my
point for me. </color><bold><color><param>0000,8080,0000</param>You
<italic><underline>can</underline></italic> do it: it should produce a
cleaner, more stable signal; but it is
</color><italic><underline><color><param>ffff,0000,0000</param>not
essential</color></underline></italic><color><param>0000,8080,0000</param>
for a </color><italic><underline><color><param>ffff,0000,0000</param>very
satisfactory</color></underline></italic><color><param>0000,8080,0000</param=
>
VFO.</color><color><param>0000,0000,ffff</param>=20

Considering

everything
however, as I said,

I
would
box the whole VFO. But I always tend to

over-engineer
things! After all,

how many
things do you build in a
lifetime?

Not
REALLY
all that many-so

build the
best
when you can do so without going to extremes-and an extra minibox is not

really extreme.

I hope I have not seemed too ambiguous here. I wanted to emphasize that

you do not have to
enclose
, but it is

not a
waste
either. OK???

72/73

Ed Tanton N4XY
Voice/MBX/FAX

EMAIL: n4xy@avana.net

TEL: (770)579-3933=

189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779 NCDXF=
SEDXC =20

Life Member: ARRL AMSAT IDRA INDEXA QCWA
Soon

URL: Coming=

=20

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: scott.thomas@circellar.com
Subject: [4581] Wanted 10m SSB HT
Message-ID: <9611171030.0EROD00@circellar.com>

I'm looking to buy a 10m HT capable of SSB. Please contact me directly if you know of one. Also, if someone could assist me with issuing this message to the ...rec.swap... list, I would be thankful.

Scott,
NM1J

Scott.Thomas@circellar.com

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: "\"W. Kimura\"." <W.Kimura@valley.net>
Subject: [4601] Windom Antennas for QRP?
Message-ID: <199611180107.UAA19504@dartvax.dartmouth.edu>

Been thinking about building a Windom for 40M and 20M and was wondering if QRP power (now there's an oxymoron) to the antenna means that the un-balanced currents on the feedline will be OK?

W. (Kim) Kimura N1MVU

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Jim Hunter <jhunter@sunrise.alpinet.net>
Subject: [4600] Windows program rtty, morse
Message-ID: <199611180100.SAA17326@alpinet.net>

Does anyone know of a good Windows (either 3.1 or 95) shareware program for rtty, packet, morse, etc.

I am using a MFJ-1278b and am not impressed with their software.

tnx.

Jim Hunter (WA7ZXN)

109 Agate

Lewistown, MT 59457

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996

From: wylde@nccn.net (Grover Cleveland, K7TP)

Subject: [4598] Re: CW and Birds

Message-ID: <v02130500aeb55a4da333@[205.139.74.173]>

>Frank G3YCC wrote:

>Reminds me of one day, sitting by a quaint English village pond,

>munching sandwiches and watching the ducks being fed by my small

>(then) infants.

>Then I was aware of a hen scratching around in the bushes, clucking

>merrily, and

>the more I listened, the more I thought it was 'clucking CW'!.

I taught our cockateel to speak Morse (both American and International). He does a pretty good "CQ de WT6P" but now the little guy has to relearn the whole thing with my new call. He also sends "SK" when we cover him up at night. What a hoot!

73

Grover

Grover's Tiny Little Signature File for Those With Emaciated Mail Readers
K7TP (ex WT6P), archaeominiferroequinologist, nerd.

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996

From: "Frank G3YCC" <g3ycc@enterprise.net>

Subject: [4576] Re: CW and Music

Message-ID: <199611171015.KAA26253@mail.enterprise.net>

Reminds me of one day, sitting by a quaint English village pond, munching sandwiches and watching the ducks being fed by my small (then) infants.

Then I was aware of a hen scratching around in the bushes, clucking merrily, and the more I listened, the more I thought it was 'clucking CW'!.

I swear that chuck was wanting a QSO! I didn't eggsactly have one with her though...

A grin a day does you good...

72/3

Frank G3YCC GQRP 042 QRP-L#348

QRP Web pages: <http://homepages.enterprise.net/g3ycc/>

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996

From: "KF4MZD (John Kemker)" <kemkerj@xyzzy.net>

Subject: [4592] Re: Low power telemetry

Message-ID: <9611172114.AA32457@ponyxprs.atlanta.med.va.gov>

I could probably put about 4 to 5 lbs. into the rocket without a problem. Average flight time is under 60 seconds to apogee. Coming back down on the 'chute, however... ;-)

Something else we had discussed was to pack a bunch of QSL cards in the rocket and have the transmitter send out the call sign and instructions for contacting the earth station to confirm QSO. Contact the earth station and you get a QSL card that flew in the rocket. Sort of like a fox hunt, but with a "Flying Fox."

The rocket I would be using is 9.5 ft. tall, 7.57 in. diameter. It weighs between 12 and 15 lbs. w/o motor. The motor choices range from an I283 (640NS total impulse, 283N avg. thrust) to a K1100 (1706NS total impulse, 1100N avg. thrust) There is almost a full 2 feet of payload area in the rocket.

While I know that packet can transfer quite a bit of data very quickly, I was thinking of transmitting using CW, as this would allow not only computer capture of the data, but also allow those without computers to actually copy the telemetry. Probably a 13WPM to 20WPM CW speed would be appropriate.

On 17 Nov 96 at 8:47, Stanley Wilson wrote:

> Hi John, the transmitter will not be the problem. It will be
> interfacing the real world data to the transmitter. You have two
> (2) analog devices i.e. altimeter, temperature that you need to
> convert to something digital. How long are the flights ? How much
> weight can you stand ?

.

.

>

> On Sun, 17 Nov 1996, KF4MZD (John Kemker) wrote:

>

> > I was wondering if anyone had done any QRP telemetry or was

> > interested in it. My other expensive hobby ;-) is flying

> > high-power model rockets. A group of us were thinking about

> > putting a QRP transmitter in a rocket connected to an altimeter,

> > temperature probe, etc. to relay that information back down to the

> > ground.

> >

> > Does anyone have any ideas of what sort of transmitter might be a

> > good choice for that?

> >

=====

73 de KF4MZD (John Kemker)
kemkerj@xyzzzy.net

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: "KF4MZD (John Kemker)" <kemkerj@xyzzzy.net>
Subject: [4593] Re: Low power telemetry
Message-ID: <9611172116.AA32324@ponyxprs.atlanta.med.va.gov>

On 17 Nov 96 at 9:37, Phil, AC6LS wrote:

> KF4MZD (John Kemker) wrote:

> >

> > I was wondering if anyone had done any QRP telemetry or was

> > interested in it. My other expensive hobby ;-) is flying

> > high-power model rockets. A group of us were thinking about

> > putting a QRP transmitter in a rocket connected to an altimeter,

> > temperature probe, etc. to relay that information back down to the

> > ground.

> >

> > Does anyone have any ideas of what sort of transmitter might be a

> > good choice for that?

> >

> > =====

> > 73 de KF4MZD (John Kemker)

> > kemkerj@xyzzzy.net

>

>

> Hi John,

>

> If you have a way of implimenting just cw, then I would recomend the

> PIXIE 2. The pcb is just a wee bit bigger than a 9v btry, which is

> what you would use for power. Puts out about 2-300mw.
>
> gud luck 72 de Phil
>

Where would I find the PIXIE 2 or assembly instructions for it?

=====
73 de KF4MZD (John Kemker)
kemkerj@xyzzzy.net

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: "KF4MZD (John Kemker)" <kemkerj@xyzzzy.net>
Subject: [4594] Re: Low power telemetry
Message-ID: <9611172123.AA29868@ponyxprs.atlanta.med.va.gov>

On 17 Nov 96 at 13:56, Kerry Miller wrote:

> Date: Sun, 17 Nov 1996 13:56:03 -0600
> To: kemkerj@xyzzzy.net
> From: Kerry Miller <kmiller@flash.net>
> Subject: Re: Low power telemetry

> At 11:02 AM 11/17/96 +0000, you wrote:
> >I was wondering if anyone had done any QRP telemetry or was
> >interested in it. My other expensive hobby ;-) is flying
> >high-power model rockets. A group of us were thinking about
> >putting a QRP transmitter in a rocket connected to an altimeter,
> >temperature probe, etc. to relay that information back down to the
> >ground.
> >
> >Does anyone have any ideas of what sort of transmitter might be a
> >good choice for that?
> >
> >
> John,
> Aren't some of the guys using the little "fireball" type 10m
> transmitters for that? The Fireball is made from a computer
> oscillator module. Kerry
>

I'm not familiar with the "fireball" 10m transmitter. I do know that some of the guys have put ATV on rockets, most notably the 50K ft.+ AGL flight this past summer at BALLS in the Black Rock Desert. From what I've heard, they saw the curvature of the Earth and black sky.

I don't have any rockets that honkin' big, though. My highest flight has been about 5000 ft. in a 2 lb. rocket. My biggest rocket only goes up about 2700 - 3000 ft. with a K550.

=====
73 de KF4MZD (John Kemker)
kemkerj@xyzzy.net

From owner-qrp-1@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [4586] Re: Need Help: Heath Transistor Equivalent
Message-ID: <328F5BA9.11A7@ix.netcom.com>

RobCap@aol.com wrote:

>
> Hi Folks-
>
> Am troubleshooting a Heath HW-8, and need help cross referencing a
> transistor. The part is Q13, described as "X29A829". It's function is the
> "Relay Driver". Heath part number is 417-201.
>
> Can anyone suggest a modern replacement? Please reply directly to
> "Robcap@aol.com".
>
> Thanks & 73,
>
> Rob, W3DX
> a.k.a. WA3ULH

Rob,

These were really poor devices that Heath used.

A better replacement is a 2N2907 or even a 2N4403. These transistors don't have the same pinout, so you'll need to bend the leads the fit. An NTE159 is another replacement, but its base pinout is also not the same as the original part, so it's really no better, and cost much more.

The Heath part has the leads arranged as shown below:

Note: Top view with flat facing down

Heath 417-201 -----> ECB
2N2907,2N4403 -----> EBC

So you will have to switch the B & C leads to fit the same PCB layout. It works fine if you bend the base forward and the collector backward. Then turn the transistor on an angle so the leads line up.

I'm using the 2N4403 in my SB104 as Q207, the relay driver, and it works fine as a replacement, and has a much lower VCEsatON drop. The only thing I noticed was the 150 ohm resistor, R907, on the Driver board is badly underrated for the dissipation it is enduring on transmit. I tossed it, and used a metal film 150 ohm 2 watt resistor. During QRP or low power operation, the relay driver output is used to select the proper RF path on the Driver PCB in my SB104.

I don't know what Heath was thinking when they used a 1/2 watt resistor for a part that is dissipating over 1.14 watts! Check your circuit to see if anything like this is the case. Also check the protection diode that should be across the transistor or relay to see if it has failed, otherwise you'll kill the replacement too.

I still have a few of the 417-201 devices as spares, but they are inferior to the substitutes I mentioned above.

73,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix) Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sun Nov 17 23:14:45 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [4587] Re: Newbie, basic questions
Message-ID: <Pine.OSF.3.95.961117113749.10860B-1000000@duke.usask.ca>

On Sun, 17 Nov 1996, Patrick McVey wrote:

> 1. What is a 40-9er? I know what a 2 by 4 is.

A 40-9er is a very simple rig that was designed to run off 9 volts and operate on 40 meters. The rig has a direct conversion receiver, a simple transmitter and a FET to turn off the receiver while the transmitter is sending. It is a very simple kit to build, but given its limited abilities it is not the simplest rig for a beginner to make contacts with.

I found that my 40-9er was very useful in teaching me things about building radios because it was so simple.

> 2. What is the Fox Hunt?

I believe the traditional meaning of a fox hunt is where a radio operator hides somewhere and begins transmitting. Other hams use their equipment to determine the PHYSICAL location of the fox. However, I believe this group uses a slightly different implementation in that you have to locate the fox ON THE AIR and have a QSO with them.

> 3. To the gentleman with the "bare essential" HF equipment: How much am I
> looking at to get in? I found a MFJ9040 package from AES for under \$300.
> Will this cut it?

>

This is a difficult question to answer because it really depends on the meaning of the words "cut it". I was happy with the 40-9er because it was very simple and easy to learn about and it is a working radio. On the other hand some would say it doesn't "cut it" because it does not have image rejection, rit, a VFO or very much power. It really depends on what you want to do with your radio.

Brian.

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| The grand leap of the whale up the Fall of Niagara is esteemed, by all |
| who have seen it, as one of the finest spectacles in nature. |
| -- Benjamin Franklin. |
+-----+
```